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nonprovisional

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NOTICE OF ALLOWANCE AND FEE(S) DUE

OLIFF & BERF P.O. BOX 19928	•			EXAMINER MATHEWS, ALAN A		
ALEXANDRIA,	VA 22320				CLASS-SUBCLASS	
			_	2851	355-053000,	
			D	ATE MAILED: 06/04/2003		
APPLICATION NO.	FILING DATE	FIRST NA	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/772,907	01/31/2001	Masai	Masaichi Murakami		1105	
TLE OF INVENTION:	SCANNING EXPOSURE	METHOD AND SYSTEM				
APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

\$1300

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

NO

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

\$1600

09/04/2003

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless correcte maintenance fee notificat	d below or o ions.	lirected otherw	ise in Block 1, by (a)	specifying a new o	orrespondence add	ress; and/or (b) indicating a sepa	arate "FEE ADDRESS" for
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					envelope address	sed to the Box Issue Fee address e USPTO, on the date indicated b	above, or being facsimile
							(Depositor's name)
				•			(Signature)
			- -		<u> </u>		(Date)
APPLICATION NO.	FIL	ING DATE	FI	RST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772,907		/31/2001	COMMON AND GATOMAN	Masaichi Muraka	ni	108483	1105
TITLE OF INVENTION:	SCANNING	EXPOSURE	METHOD AND SYST	ЕМ			
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MATREW	S, ALAN A		2851	355-0530			
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☐ Change of correspon			f Correspondence	or agents OR,	alternatively, (2)	the name of a	
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3. ASSIGNEE NAME AN	ID RESIDEN	ICE DATA TO	BE PRINTED ON TH	E PATENT (print o	or type)		
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN	ed to the USF	is identified be TO or is being	submitted under separa	will appear on the te cover. Completion RESIDENCE: (CIT	on of this form is N	assignee data is only appropriat OT a substitute for filing an assig	e when an assignment has nment.
Please check the appropria 4a. The following fee(s) as		ategory or cate		ayment of Fee(s):	□ individual	corporation or other private gr	oup entity U government
☐ Issue Fee				check in the amoun	t of the fee(s) is end	closed.	
☐ Publication Fee			☐ Pa	yment by credit car	d. Form PTO-2038	is attached.	
☐ Advance Order - # of	Copies		☐ Th Depo	e Commissioner is sit Account Number	hereby authorized l	by charge the required fee(s), or c (enclose an extra copy of this f	redit any overpayment, to form).
Commissioner for Patents	is requested	to apply the Iss				asly paid issue fee to the applicati	
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NOTE; The Issue Fee a other than the applicant interest as shown by the	; a registere records of the	d attorney or United States	agent; or the assignee Patent and Trademark	or other party in Office.			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/772,907	01/31/2001	Masaichi Murakami	108483	1105	
25944	7590 06/04/2003	·	EXAMIN	ER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			MATHEWS, ALAN A		
ALEXANDRIA			ART UNIT	PAPER NUMBER	
	,		2851		
			DATE MAILED: 06/04/2003	,	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 96 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 96 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772,907	01/31/2001	Masaichi Murakami	108483	1105
25944 75	90 06/04/2003		EXAMIN	ER
OLIFF & BERRI			MATHEWS, A	ALAN A
P.O. BOX 19928 ALEXANDRIA, V	A 22320		ART UNIT	PAPER NUMBER
UNITED STATES			2851	
			DATE MAIL ED. 06/04/2002	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

, , , , , , , , , , , , , , , , , , , ,	Applicati n No.	Applicant(s)	V
	09/772,907	FUJITSUKA ET AL	
Notice of Allowability	Examiner	Art Unit	
	Alan A. Mathews	2851	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in the commod or other appropriate commod of the c	n this application. If not include unication will be mailed in due	led course. THIS
 This communication is responsive to 5-12-2003. The allowed claim(s) is/are 12-32. The drawing filed on 12 May 2003 are accepted by the Ed. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Acknowledgment is made of a claim for domestic priority of the priority of the certified copies not received: Acknowledgment is made of a claim for domestic priority of the translation of the foreign language provisional 	nder 35 U.S.C. § 119(a)-(d) of the been received. We been received in Application ocuments have been received under 35 U.S.C. § 119(e) (to	on No ed in this national stage applicate a provisional application).	ation from the
Acknowledgment is made of a claim for domestic priority of Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of A SUBSTITUTE OATH OR DECLARATION must be sub-	of this communication to file f this application. THIS THI	a reply complying with the requEE-MONTH PERIOD IS NOT	EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gives rea			NOTICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing (c) including changes required by the attached Examine Identifying indicia such as the application number (see 37 CFR) 	correction filed, whi	ch has been approved by the or in the Office action of Paper	No
each sheet. 9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR			Note the
Attachment(s)			
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No. 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∏ Intervie 6⊠ Examin	of Informal Patent Application of Summary (PTO-413), Paper er's Amount of Reasons for er's Statement of Reasons for .	No

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Application/Control Number: 09/772,907

Art Unit: 2851

DETAILED ACTION

Correction of Inventorship under 37 CFR 1.48(b)

1. In view of the papers filed May 12, 2003, the inventorship in this nonprovisional application has been changed by the deletion of:

Seiji FUJITSUKA

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of the file jacket and PTO PALM data to reflect the inventorship as corrected.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest exposing a first and second patterns (located on a mask) onto a substrate wherein when the first and second patterns are exposed along a synchronous moving direction of the substrate, a part of the first pattern

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Art Unit: 2851

and a part of the second pattern overlap and are exposed, and a synchronous moving speed of the mask and the substrate when there is overlapping exposure is set different from a synchronous moving speed of the mask and substrate when there is no overlapping exposure as recited in independent claim 12.

The prior art of record does not disclose or suggest synchronously changing a size of the illumination region in a direction intersecting with the synchronous moving direction of the substrate during the synchronous movement of the mask and substrate at a time of exposure in order that a locus of an end of the illumination region on the substrate is extended in a direction different from the synchronous moving direction as recited in independent claims 14 and 16.

The prior art of record does not disclose or suggest that the illumination region setting device includes a pair of blind plates which respectively have openings with a predetermined width in the synchronous moving direction and are movable in a direction that is different from the synchronous moving direction in combination with the other elements recited in independent claim 17.

The prior art of record does not disclose or suggest that the ends of the illumination region are exposed to an illumination gradient in combination with the other elements recited in independent claim 20.

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The prior art of record does not disclose or suggest an illumination region setting device which sets an illumination region of the mask and a changing device which changes a size of the illumination region in a direction different from a synchronous moving direction of the substrate during synchronous movement and where ends of the illumination region are exposed to an illumination gradient as recited in independent claim 20.

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The prior art of record does not disclose or suggest the size of the illumination region in a direction intersecting with a synchronous moving direction of the substrate is synchronously changed during synchronous movement, and wherein an overlapping part which is partially overlapped with the pattern is formed in a zigzag pattern as recited in independent claim 25.

The prior art of record does not disclose or suggest moving the illumination region in a direction intersecting with a synchronous moving direction of the substrate during synchronous movement at the time of exposure as recited in independent claim 31.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2851

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan A. Mathews whose telephone number is (703) 308-1706. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703) 308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

One of Matthews

Alan A. Mathews Primary Examiner Art Unit 2851

AAM June 2, 2003